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**From:** Wanda C. Monahan, Esq  
**Sent:** Thursday, July 6, 2017 4:43 PM  
**To:** 'John P. Wyciskala' <[JWyciskala@iwt-law.com](mailto:JWyciskala@iwt-law.com)>  
**Cc:** Todd Caliguire ([tcaliguire@njdwsc.com](mailto:tcaliguire@njdwsc.com)) <[tcaliguire@njdwsc.com](mailto:tcaliguire@njdwsc.com)>; Lewis Schneider <[lewiss@njdwsc.com](mailto:lewiss@njdwsc.com)>; 'Joseph Stroin' <[jstroin@njdwsc.com](mailto:jstroin@njdwsc.com)>  
**Subject:** RE: Reservoir Data and Model

John – I just called your office but were told you already left for a meeting.

Thank you for your email with additional information below which I've forwarded to Lawra Dodge and the Ford Team and will let you know.

Please see attached Flow Report for Dec. 2016 which Lew provided to Gary DiPippo who has asked for the same report for all of the months in 2016 (and 2015 if possible). My understanding is that they can take the information from the flow reports to input into the model they've developed to assess the risk of transport of groundwater from the Ringwood Site to the Reservoir. Using data only a single month from Dec. 2016 in a model will not yield as reliable results as if representative data over a year period is available and can be used instead.

During the meeting, it was mentioned that the flow report is generated routinely on a monthly basis. Perhaps the Dec. 2016 monthly report was provided initially as an example to make sure this is what was requested before sending the reports for all of the months. Please provide the reports for all of 2016 so that the model which the Commission requested be performed can be performed. EPA agreed at the meeting that the flow model should be run and is expecting that the results will be included in the RIR Addendum. Please call me to discuss if necessary. Thank you, Wanda

Wanda Chin Monahan, Esq.

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**From:** John P. Wyciskala [<mailto:JWyciskala@iwt-law.com>]  
**Sent:** Thursday, July 6, 2017 3:50 PM  
**To:** Wanda C. Monahan, Esq <[wmonahan@monahanlawnj.com](mailto:wmonahan@monahanlawnj.com)>  
**Cc:** Todd Caliguire ([tcaliguire@njdwsc.com](mailto:tcaliguire@njdwsc.com)) <[tcaliguire@njdwsc.com](mailto:tcaliguire@njdwsc.com)>; Lewis Schneider <[lewiss@njdwsc.com](mailto:lewiss@njdwsc.com)>; 'Joseph Stroin' <[jstroin@njdwsc.com](mailto:jstroin@njdwsc.com)>  
**Subject:** FW: Reservoir Data and Model

Wanda:

I am modifying my email from earlier today as Lew Schneider took the time to assemble the responses to the additional requests for information on Friday which are in orange.

R288 is the inflow to the plant and would be just west of WQ03 on map. P-5 is finished potable water for distribution and in same proximity. RG01 is Ringwood Creek head waters. To my knowledge COC was not provided. Other maps and boring/ well logs are not available.

Permanganate data is not readily available.

All inflow information to reservoir is identified on the map. Other stream flow are on rivers and not related to your request.

Flow and rainfall concepts are on USGS sites and can be found there and possibly other areas. Our model is unique for other site and needs and a modeler should be able to develop one for your needs.

This in conjunction with the information and documentation previously provided is all the Commission has available at this time.

Best regards,

John

**From:** DiPippo, Gary  
**Sent:** Wednesday, June 28, 2017 1:52 PM  
**To:** 'Capuzzi, Albert (A.J.)' <[Albert.Capuzzi@jacobs.com](mailto:Albert.Capuzzi@jacobs.com)>; 'Lewis Schneider' <[lewiss@njdwsc.com](mailto:lewiss@njdwsc.com)>  
**Cc:** 'Todd Caliguire' <[tcaliguire@njdwsc.com](mailto:tcaliguire@njdwsc.com)>; 'ldodge@excelenv.com' <[ldodge@excelenv.com](mailto:ldodge@excelenv.com)>

**Subject:** RE: Reservoir Data and Model

AJ, Lew,

As we review the information provided (thanks again), a few more questions:

1. Would it be possible to identify on a map the samples designated as R288, P5, RG01(believe I have this one, Ringwood Ck surface water), RGMW1, RGMW2, and RGMW3. There are some inconsistencies in the COC forms, and we would like to be sure we understand what these samples are, and their locations
2. Would you be able to provide boring/well logs for the shooting range wells, including the water supply well, if available.
3. Assuming permanganate is in use at the treatment plant, is there data on typical dosing that you can provide, or if available as a database output. . . .Or perhaps there is a mass balance version of the PFD that would help us understand this component of the treatment plant.
4. It appears that the inflows provided for the December 2016 example do not match all locations shown on the plan view of the reservoir and vice versa. Would it be possible to get a drawing showing all possible inputs to the reservoir, and to the extent that the variability suggests inflows vary over time, it emphasizes our earlier request for historical flow data.
5. During our meeting, you had mentioned the direct precipitation model for estimating contributions. If we attempt to perform analyses at other than a gauge location, this model would be useful for consistency of estimation. Can you send the method to us?

Thanks again for your help with gathering this information.

Gary

Gary DiPippo

Client Services Manager



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[www.CornerstoneEG.com](http://www.CornerstoneEG.com)

**From:** DiPippo, Gary

**Sent:** Wednesday, June 28, 2017 11:22 AM  
**To:** 'Capuzzi, Albert (A.J.)' <[Albert.Capuzzi@jacobs.com](mailto:Albert.Capuzzi@jacobs.com)>; Lewis Schneider <[lewiss@njdwsc.com](mailto:lewiss@njdwsc.com)>  
**Cc:** Todd Caliguire <[tcaluire@njdwsc.com](mailto:tcaluire@njdwsc.com)>; [ldodge@excelenv.com](mailto:ldodge@excelenv.com)  
**Subject:** RE: Reservoir Data and Model

AJ, Lew,

Thanks for sending this, and it is quite helpful to get us started.

Something we were hoping to get is a longer historical record of flows into the reservoir that would help us understand the range of contribution from Ringwood Creek (i.e., how does it differ during wet or dry conditions).

Is there a data base of flow contributions, even as an Excel file, that you could send that would correspond to the various inputs shown in the December 2016 example that you sent?

Thanks, Gary

Gary DiPippo

Client Services Manager



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[www.CornerstoneEG.com](http://www.CornerstoneEG.com)

**From:** Capuzzi, Albert (A.J.) [<mailto:Albert.Capuzzi@jacobs.com>]  
**Sent:** Wednesday, June 28, 2017 10:22 AM  
**To:** DiPippo, Gary <[Gary.DiPippo@Cornerstoneeg.com](mailto:Gary.DiPippo@Cornerstoneeg.com)>; Lewis Schneider <[lewiss@njdwsc.com](mailto:lewiss@njdwsc.com)>  
**Cc:** Todd Caliguire <[tcaluire@njdwsc.com](mailto:tcaluire@njdwsc.com)>; [ldodge@excelenv.com](mailto:ldodge@excelenv.com)  
**Subject:** RE: Reservoir Data and Model

Here you go Gary.

**From:** [Lewiss@njdwsc.com](mailto:Lewiss@njdwsc.com) [<mailto:Lewiss@njdwsc.com>]  
**Sent:** Wednesday, June 28, 2017 10:19 AM  
**To:** Capuzzi, Albert (A.J.)  
**Subject:** Peters Mine data

## Jacobs File Transfer System

[Lewiss@njdwsc.com](mailto:Lewiss@njdwsc.com) has sent you a file archive.

If you trust [Lewiss@njdwsc.com](mailto:Lewiss@njdwsc.com), use the URL below to pick up the file archive (you may need to copy and paste it into your browser):

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**From:** DiPippo, Gary [<mailto:Gary.DiPippo@Cornerstoneeg.com>]

**Sent:** Tuesday, June 27, 2017 4:10 PM

**To:** Lewis Schneider; Capuzzi, Albert (A.J.)

**Cc:** Todd Caliguire; [ldodge@excelenv.com](mailto:ldodge@excelenv.com)

**Subject:** RE: Reservoir Data and Model

Great. Thank you very much.

AJ, can you give us an update on when to expect the information?

Thanks, Gary

Gary DiPippo

Client Services Manager



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**From:** Lewis Schneider [<mailto:lewiss@njdwsc.com>]

**Sent:** Tuesday, June 27, 2017 4:01 PM  
**To:** DiPippo, Gary <[Gary.DiPippo@Cornerstoneeg.com](mailto:Gary.DiPippo@Cornerstoneeg.com)>  
**Cc:** Todd Caliguire <[tcaliguire@njdwsc.com](mailto:tcaliguire@njdwsc.com)>; [ldodge@excelenv.com](mailto:ldodge@excelenv.com); Capuzzi, Albert (A.J.) <[Albert.Capuzzi@jacobs.com](mailto:Albert.Capuzzi@jacobs.com)>  
**Subject:** RE: Reservoir Data and Model

AJ was forwarded the info this AM. Please work through him.

**From:** DiPippo, Gary [<mailto:Gary.DiPippo@Cornerstoneeg.com>]  
**Sent:** Tuesday, June 27, 2017 3:19 PM  
**To:** Lewis Schneider  
**Cc:** Todd Caliguire; [ldodge@excelenv.com](mailto:ldodge@excelenv.com); Capuzzi, Albert (A.J.)  
**Subject:** RE: Reservoir Data and Model

Hello Lew. Anything you can do to expedite the information transfer is greatly appreciated. EPA is expecting that we have some of the requested information by the end of the week and we have a conference call with EPA tomorrow at 2:00, and EPA is expecting a schedule for completion of the information transfer during that call.

If there is any way possible to get an update on the information transfer before 2:00 tomorrow, it will be important to our coordination with EPA.

Thanks, Gary

Gary DiPippo

Client Services Manager



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**From:** Capuzzi, Albert (A.J.) [<mailto:Albert.Capuzzi@jacobs.com>]  
**Sent:** Monday, June 26, 2017 4:47 PM  
**To:** DiPippo, Gary <[Gary.DiPippo@Cornerstoneeg.com](mailto:Gary.DiPippo@Cornerstoneeg.com)>  
**Cc:** Todd Caliguire <[tcaliguire@njdwsc.com](mailto:tcaliguire@njdwsc.com)>; [ldodge@excelenv.com](mailto:ldodge@excelenv.com); Lewis Schneider <[lewiss@njdwsc.com](mailto:lewiss@njdwsc.com)>  
**Subject:** RE: Reservoir Data and Model

Gary – Lew Schneider is preparing that information. I've copied him on this email. I do not

know the expected timing of this. Lew, can you reply to this? AJC

**From:** DiPippo, Gary [<mailto:Gary.DiPippo@Cornerstoneeg.com>]  
**Sent:** Friday, June 23, 2017 12:34 PM  
**To:** Capuzzi, Albert (A.J.)  
**Cc:** Todd Caliguire; [ldodge@excelenv.com](mailto:ldodge@excelenv.com)  
**Subject:** Reservoir Data and Model

Good afternoon AJ.

I was not sure who to ask, and don't mean to be a bother about this, but thought I would ask if you have an idea of when we might expect to see the information we discussed at our meeting on Tuesday.

As expressed at the meeting, all of the stakeholders are eager to keep the work moving along, so anything you can do to expedite the information transfer would be much appreciated.

And, if there is anything that we can do to help, please let me know.

Thanks, Gary

Gary DiPippo

Client Services Manager



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**From:** Capuzzi, Albert (A.J.) [<mailto:Albert.Capuzzi@jacobs.com>]  
**Sent:** Tuesday, June 20, 2017 3:52 PM  
**To:** [ldodge@excelenv.com](mailto:ldodge@excelenv.com); DiPippo, Gary <[Gary.DiPippo@Cornerstoneeg.com](mailto:Gary.DiPippo@Cornerstoneeg.com)>  
**Cc:** Todd Caliguire <[tcaliguire@njdwsc.com](mailto:tcaliguire@njdwsc.com)>  
**Subject:** Final Report

Lawra and Gary – Attached please find the final report. AJC

Albert J. Capuzzi, P.E. | JACOBS |

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